Please amend the paragraph on page 18, lines 16-21 as follows:

The first constellation has at least two symbols with non-zero probabilities and differing amplitudes, as shown in the figure. The first constellation is not a constant-modulus constellation. The first constellation has a first second-order statistic equal to the expected value over all symbols in the constellation of each symbol multiplied by its complex conjugate. This statistic is the conjugated ~~the non-conjugated~~ second moment, which in the figure is shown having a value of 1.

Please amend the paragraph on page 18, lines 22-25 as follows:

The first constellation also has a second second-order statistic which is equal to the expected value over all symbols in the constellation of each symbol multiplied by itself. This statistic is the non-conjugated second moment, which is required ~~in claim 1~~ to be non-zero. In the figure it is shown having a value of 1/2.

Please amend the paragraph on page 19, lines 5-10 as follows:

The second constellation has a third second-order statistic which is the conjugated second moment, and which is shown as having a value of 1. The second constellation has a fourth second-order statistic which is the non-conjugated second moment, and which is shown as having a value of -1/2. The second second-order statistic of the first constellation is not equal to the fourth second-order statistic of the second ~~constellation, as required by claim 1.~~ constellation.

Please amend the paragraph on page 19 lines 26-27 and page 20 lines 1-4 as follows:

The preferred embodiment of Fig 2C ~~is an example of the machine of claim 1. It is also an example of the method of claim 10 because it~~ shows periodic selection of symbols from a first constellation and a second constellation having the properties required ~~in claim 10.~~ in the claims. The key features of the preferred embodiment are that the non-conjugated second moment sequence is

cyclostationary and that at least one of the constellations does not have the property of constant modulus.

Please amend the paragraph on page 20 lines 13-18 as follows:

When used in a system that identifies linear channel parameters using the non-conjugated moments, the preferred embodiment is an example of ~~machine claim 2, machine claim 6,~~ the second method claim ~~11~~, and the sixth method claim ~~15~~. ~~Machine claim 6 and~~ The sixth method claim ~~15~~ require that the first second-order statistic of the first constellation and the third second-order statistic of the second constellation are equal, which is the case in the preferred embodiment of Fig 2C.

Please amend the paragraph on page 20 lines 19-23 as follows:

When used in a system that identifies parameters of a linear channel equalizer using the non-conjugated second moments, the preferred embodiment is an example of ~~machine claim 3, machine claim 7,~~ the third method claim ~~12,~~ and the seventh method claim ~~16~~. ~~Machine claim 7 and~~ The seventh method claim ~~16 require~~ requires that the first second-order statistic of the first constellation and the third second-order statistic of the second constellation are equal.

Please amend the paragraph on page 20 lines 24-26 and on page 21 lines 1-2 as follows:

When used in a system that identifies nonlinear channel parameters using the non-conjugated second moments, the preferred embodiment is an example of ~~machine claim 4, machine claim 8,~~ the fourth method claim ~~13,~~ and the eighth method claim ~~17~~. ~~Machine claim 4 and~~ The eight method claim ~~17 require~~ requires that the first second-order statistic of the first constellation and the third second-order statistic of the second constellation are equal.

Please amend the paragraph on page 21 lines 3-7 as follows:

When used in a system that identifies parameters of a nonlinear channel equalizer using the non-conjugated second moments, the preferred embodiment is an example of ~~machine claim 5, machine claim 9,~~ the fifth method claim ~~14,~~ and the ninth method claim ~~18~~. ~~Machine claim 9 and~~ The ninth method claim ~~18 require~~ requires that the first second-order statistic of the first constellation and the third second-order statistic of the second constellation are equal.